

HUNGARY

BENKO, Sandor; BALAZS, Viktor; KOHLMACH, Margit; HORVATH, Eva; KUVACS, Kalman; CSARADI, Miklos; FELKAI, Bele; RDI, Kalman; I. Clinic of Internal Medicine and Institute of Pathological Anatomy of the Medical University (Orvostudomanyi Egyetem I. sz. Belklinika es Korbonctani Intezet), Szeged.

"Pulmonary Granuloma upon the Administration of Methylcellulose Intravenously and the Effect of Cortisone and of the Filtrate of Escherichia Coli Liquid Cultures."

Budapest, Kiserletes Orvostudomany, Vol 14, No 5, Oct 62,
pp 515-519.

Abstract: [Authors' Hungarian summary] Continucus, intravenous administration of methylcellulose results in the development of proliferative pulmonary arteritis and an increase in the serum cholesterol level. Cortisone administration has no effect on the latter but it reduces the proliferative blood vessel inflammation. Coli culture filtrate lowers the cholesterol and cholesterol ester levels significantly and also the methylcellulose and lipid deposition.

JULESZ, Miklos, dr.; B. FROHLICH, Margit, dr.; K. LASZLO, Ilona, dr.;
TOTH, Istvan, dr.; SZEPESSY, Gabor, dr.; DAVID, Margit, dr.

The effect of estriol on lipid metabolism. Orv. hetil. 103 no.43:
2017-2021 28 0 '62.

1. Szegedi Orvostudomanyi Egyetem, I. Belklinika es Kozponti Laboratorium.
(ESTRIOL) (LIPID METABOLISM) (CORONARY DISEASE)
(PHOSPHOLIPIDS) (LIPOPROTEINS)
(BLOOD CHOLESTEROL) (BLOOD LIPIDS)

BENKO, Sandor; BALAZS, Viktor; EROH-LICH, Margit; HORVATH, Eva; KOVACS, Kalman;
CSANADI, Miklos; FELKAI, Bela; RAK, Kalman

Pulmonary granuloma caused by the intravenous administration of
methylcellulose and its sensitivity to cortisone and to Escherichia
coli culture broth. Kiserl. orvostud. 14 no.5:515-519 O '62.

1. Szegedi Orvostudomanyi Egyetem I. sz. Belklinika es Korbonctani
Intezet.

(LUNG) (GRANULOMA) (METHYLCELLULOSE)
(ESCHERICHIA COLI) (CORTISONE) (BLOOD CHOLESTEROL)

HUNGARY

FROHLICH, Margit, BALAZS, Viktor; Medical University of Szeged, I. Medical Clinic (Szegedi Orvostudomanyi Egyetem I. sz. Belklinika).

"Analysis of a Cryoglobulin Which Contains Nucleoproteins."

Budapest, Kiserletes Orvostudomany, Vol XV, No 4, Aug 1963, pages 344-350.

Abstract: [Authors' Hungarian summary] The results of detailed chemical analyses of a cryoglobulin are reported which has been isolated by repeated cold-precipitation from the blood of a patient with purpura cryoglobulinemia. Ninety six per cent of the cryoglobulin tested consists of a protein component with a sedimentation constant of 6.1 S. Its UV spectrum resembles that of ribonucleoproteins. It contains large amounts of basic amino acids, and purine and pyrimidine bases corresponding to those of ribonucleoproteins. The possibility of a relation between nucleic acid content and pathological protein production is under investigation. 1 Hungarian, 11 Western references.

1/1

JULESZ, M.; FROHLICH, M.B.; LASZLO, I.K.; TOTH, I.; SZEPESSY, G.; DAVID,
M.A.

On the effects of estriols on lipid metabolism. Acta med. acad.
sci. hung. 19 no.2:161-168 '63.

1. I. Medizinische Klinik und Zentrallaboratorium der Medizinischen
Universitat, Szeged.
(ESTRIOL) (LIPID METABOLISM) (GYNECOLOGY) (BLOOD LIPIDS)
(PHOSPHOLIPIDS) (LIPOPROTEINS) (BLOOD CHOLESTEROL)
(BLOOD PROTEIN ELECTROPHORESIS)

TIBOLDI, T.; JULESZ, M.; SZALMA, J.; KOVACS, K.; BALAZS, V.; FROHLICH, Margit;
LASZLO, Ilona; TOTH, I.

Experience with Selye's granuloma pouch technique. Acta physiol.
acad. sci. Hung. 25 no.1:61-70 '64.

1. First Department of Medicine and Department of Ophthalmology,
University Medical School, Szeged.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

JULESZ, M.; TIBOLDI, T.; SZALMA, J.; LASZLO, Ilona; KOVACS, K.; SZARVAS, F.;
BALAZS, V.; FROHLICH, Margit; TOTH, I.

Effect of thyrotropic hormone on granulation tissue. Acta physiol.
acad. sci. Hung. 25 no.1:71-81 '64.

1. First Department of Medicine and Department of Ophthalmology,
University Medical School, Szeged.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

BALAZS, Viktor, dr.; SZALMI, Jozsef, dr.; FROHLICH, Margit, dr.

Autoantibodies in pernicious anemia and in other achlorhydric conditions. Orv. hetil. 105 no.37:1729-1733 13 S '64.

1. Szegedi Orvostudomanyi Egyetem, I Belklinika (igazgato: Julesz Miklos dr.).

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

HUNGARY

BALAZS, Viktor, Dr., and FROHLICH, Margit, Dr.. First Clinic for Internal Medicine at the University for Medical Sciences (Orvos-tudomanyi Egyetem, I. sz. Belklinika) in Szeged (Director: JULESZ, Miklos, Dr.)

"Anticomplement Effect of Cryoglobulinemic Sera and Isolated Cryoglobulins"

Budapest, Orvosi Hetilap, Vol 107, No 29, 17 Jul 1966, pp 1350-1353.

Abstract: The anticomplement effect, protein content, the nature of the globuline components, the rheumatoid factor activity, the anticomplement titer before and after heat treatment, and the relations between anticomplement effect and other immunological, physico-chemical, and chemical properties were investigated in total serum, cryoglobulin-less serum, and isolated cryoglobuline from purpura cryoglobulinemia, Co. pulm. reticulosarcoma, purpura cryoglobulinemia, Co. ventric.purpura cryoglobulinemia, reticulosis purpura cryoglobulinemia, and Sjogren syndrome. The globuline components (encountered in all but the first mentioned) consisted of gamma-1M and gamma-2; they were found to be responsible for the anticomplement effect. All were heat-sensitive. 26 references, including 2 German and 24 Western.

1/1

10

FROHLICH, O.; FARKAS, L.

Postoperative osteitis pubis. Magy. sebeszet 5 no. 4:285-294 Nov
1952.
(GIML 24:1)

1. Doctors. 2. First Surgical Clinic (Director -- Prof. Dr. Gyula
Jaki), Szeged Medical University.

BELA, Hermann, dr.; FROHLICH, Otto, dr.

Data on caseous tuberculosis of the thyroid glands. Tuberk.
kerdesei 9 no.1:27-28 Feb 56

1. A gyulai Magyei Korhaz Belgyogyoszati (foorvos: Hermann Bela dr.)
es Sebeszeti Osztalyanak (foorvos: Frohlich Otto dr.) koslemenye.

(THYROID GLAND, dis.

tuberc., caseous, surg. & pathol. (Hun))

(TUBERCULOSIS
of thyroids, caseous, surg. & pathol.(Hun))

Frohlich, Otto

HERMANN, Bela, dr.; FROHLICH, Otto, dr.

Recovery after surgery in hydropericardium lasting for decades
and simulating tumor. Magy. sebeszet 10 no.1:55-59 Mar 57.

1. A Gyulai Megyei Korkhaz Belgyogyaszati (Foorvos: Hermann, Bela
dr.) es Sebeszeti Ostalyanak (Foorvos: Frolich, Otto, dr.)
koslemeye.

(PERICARDIUM, dis.
hydropericardium simulating tumor & lasting for
decades, diag. & surg. (Hun))

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROHLICH, O.

Third International Construction Equipment Exhibition;
Zagreb, April 17-25, 1965. Gradevinar 16 no.12:446-448
D '64.

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CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROHLICH, P.

(Deceased)

See ILC

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

REDR, M., doc. inz. CS.; FROLIK, J., promovany matematik

Experimental and theoretical determination of cooling
ingot heat content. Hit listy 19 no.11:781-789 N '64.

1. Higher School of Mining, Ostrava (for Redr). 2. Research
Institute of Iron Metallurgy, Prague (for Frolík).

FROIIMESCU, A.

Continuous Reinforced Concrete Trusses of Preliminarily Compressed Concrete and Their Utilization for the Construction of Principle Bridge Trusses. Studii Si Cercetari De Mechanica Aplicata (Studies and Research in Applied Mechanics), #1-2:187:Jan-Jun 55

FROIIMESCU, A.; ILLE, V.

Effect of the mineralogical composition of cement on physical and
mechanical properties of concrete and reinforced concrete; slow flow. p. 589.

Academia Republicii Populare Romine. Institutul de Mecanica Aplicata.

STUDII SI CERCETARI DE MECANICA APLICATA. Bucuresti. Vol. 6, no. 3/4, July/Dec.
1955.

So. East European Accessions List Vol. 5, No. 9 September, 1956

✓ 430. Prostocut, A., Influence lines of bending moments in fully restrained arches (in Rumanian), *Indust. constr. Mater. constr.* 7, 5, 289-294, May 1956.

Author explains his opinion that the classical method of determining the statically indeterminate values of H_a , V_a , and t_a acting at the elastic centroid of the arch (as introduced by Motsch, Strasser and Zervies) is rather complicated, and discusses the preferable method of virtual displacements, which is also generally known. The application of this method to influence lines is presented on a numerical example (arch spanning 51 ft. with 15.3-ft rise).

J. J. Polivka, USA

VMM

FROIMESCU, A.

FRCIMESCU, A.

FRCIMESCU, A. The calculation continuous arches reposing on elastic piers. . . 721.

No. 12, 1956.
TECHNICAL COMMUNICATIONS OF THE INSTITUTE OF APPLIED MATHEMATICS
TECHNOLOGY
ESTONIA

To: East European Accension, Vol. 6, No. 5, May 1957

FROIIMESCU, A.

The Progresul platform workshop for the manufacture of prestressed elements. p. 446.
(INDUSTRIA CONSTRUCTILOR SI A MATERIALELOR DE CONSTRUCTII. No. 7, 1957, Rumania)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 2, No. 12, Dec. 1957
Uncl.

BUTOV, Ivan, traktorist-mashinist; FROL, V., traktorist-mashinist

Bonuses and monetary awards. Sel'.mekh. no.3:23-24 '62.
(MIRA 15:3)

1. Sovkhoz "Romashkovskiy", Pallasovskiy rayon, Volgogradskaya
oblast' (for Butov). 2. Sovkhoz "Donskoy", Enbekshil'derskiy rayon,
Kokchetavskaya oblast (for Frol).

(Agricultural workers—Rewards (Prizes, etc.) (Wages)

FROL'CHENKO, N.

The day oil was on fire. Pozh.delo 8 no.3:18-20 Mr '62.
(MIRA 15:4)
(Zhirnovsk region—Oil fields—Fires and fire prevention)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

KANDOD'YEV, A.N.; FROLLENKO, L.A.

Oncorhynchus keta Walb. culture in fish hatcheries with low
winter temperature. Trudy MMBI no.9:62-66 '65. (MIRA 18:12)

I. Sakhalinskoye otdeleniye Tikhookeanskogo nauchno-issledovatel's-
kogo instituta rybnogo khozyaystva i okeanografii.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

KOSAREV, O., shturman; GVIL'DIS, B., bortmekhanik (Irkutsk); KORNEV;
LOZOVSKIY; KUZ'MIN, starshiy inzhener-ekonomist; MESILOV, Yu.,
aviatekhnik; FROLENKO, N. (Novosibirsk); KHALIULLIN, R.
(Verkhniye Kigi, Bashkirskoy ASSR); ZOSIMOV, V. (g. Klintsy,
Bryanskoy oblasti)

Public inspection is in action. Gruzhd. av. 20 no.6:28
Je '63. (MIRA 16:8)

1. Obshchestvennyy inspektor po bezopasnosti poletov,
Novosibirsk (for Kosarev).
(Aeronautics, Commercial)

YUKHNOVICH, A.N., veter. vrach (Yel'ninskiy rayon, Smolenskoy oblasti);
RUDOMETKIN, Ya.S., veter. vrach; EVENTOV, M.Z., veter. vrach;
SOBOLEV, A.S., dotsent (Estonskaya SSR); DOL'NIKOV, Yu.Ya., kand.
veter. nauk; PALIMPSESTOV, M.A., prof.; SIMONENKO, N.M., dotsent;
GONCHAROV, A.P., assistant; BEZRUKOV, A.A.; FROLENKOV, N.A., veter.
vrach (Serov, Sverdlovskoy oblasti); KOSHCHEYEV, P.M.; VOROB'YEV,
M.M., kand. veter. nauk; YANCHENKO, P.Kh., veter. vrach;
AMELIN, I.P.; BYCHKOV, A.I., kand. veter. nauk; SHVYREV, G.I.,
veter. vrach (Stavropol'skiy kray); DANILIN, N.F.; TRUSHIN, A.Z.,
veter. vrach; SKRYPNIKOVA, T.K., veter. fel'isher; MIKHEYEV, A.D.;
KARMOVA, Ye.M., kand. biol. nauk; REMIZOV, Ye.S., mladshiy
nauchnyy sotrudnik; ANTIPIN, D.N., referent

From helminthological practice, Veterinariia 38 no.7:55-58
(MIRA 16:8)
Jl '61.

1. Reshetovskiy veterinarnyy uchastok, Novosibirskoy oblasti
(for Rudometkin).
2. Sovkhoz "Buda-Koshelevskiy" Gomel'skoy
oblasti (for Eventov).
3. Sibirskiy nauchno-issledovatel'skiy
veterinarnyy institut (for Dol'nikov).
4. Khar'kovskiy veteri-
narnyy institut (for Palimpsestov, Simonenko, Goncharov).
5. Blagoveschchenskiy sel'skokhozyaystvennyy institut (for
Bezrukov).
6. Novo-Nikolayevskiy veterinarnyy uchastok Krasno-
darskogo kraya (for Lochkarev).
7. Karpilovskiy veterinarnyy
uchastok Chernigovskoy oblasti (for Ponomarenko).
8. Kamalinskiy
veterinarnyy uchastek Krasnoyarskogo kraya (for Koshcheyev).

(Continued on next card)

SLIVNIK, J.; BRCIC, B.; VOLAVSEK, B.; SMALC, A.; FRLEC, B.; ZEMLJIC, R.; ANZUR,
A.; VEKSLI, Z.

On the synthesis of, and magnetic measurements on, xenon tetrafluoride.
Croat chem acta 34 no.3:187-188 '62.

1. "Jozsef Stefan" Institute for Nuclear Research, Ljubljana, Slovenia,
Yugoslavia (for Slivnik, Bracic, Volavsek, Smalc, Frlec, Zemljic, and
Anzur.) 2. Institute "Ruder Boskovic", Zagreb, Croatia, Yugoslavia
(for Vekslis).

FROEHLICH, Jozef; SZCZERBINSKI, Andrzej

A case of Morgagni-Adams-Stokes syndrome in tuberculosis of heart muscle. Pol. tyg. lek. 17 no.37:1455-1457 10 S '62.

1. Z Oddzialu Wewnetrznego I Szpitala Miejskiego w Gliwicach; ordynator oddzialu: dr med. Jozef Froehlich; dyrektor szpitala: dr Kazimierz Bienkowski.

(HEART BLOCK) (TUBERCULOSIS CARDIOVASCULAR)

FROLENKO, A.

More about simplifying the method for measuring the workday.
Sots.trud 5 no.3:113 M_r '60. (MIRA 13:6)

1. Starshiy inzhener otdela truda i zarabotnoy platy zavoda
zuboreznykh stankov "Komsomolets," g. Yegor'yevsk Moskovskoy
oblasti.

(Yegor'yevsk--Gear-cutting machines)
(Time study)

FROLENKO, G.I.

Effect of starvation on larval development of bream and
crucian carp. Nauch.dokl.vys.shkoly; biol.nauki no.1:29-32
'59. (MIRA 12:5)

1. Rekomendovana kafedroy ikhtiologii Moskovskogo gosudar-
stvennogo universiteta im. M.V.Lomonosova.
(FISHES--FOOD) (BREAM) (CARP)

KARTASHEVSKIY, N.G.; BARKOV, G.I.; FEDOROVA, I.G.; FROLENKO, G.I.

New plastic package for the storage of preserved homotransplants.
Vest.khir. no.7:112-115 '61. (MIRA 15:1)

1. Iz Leningradskogo ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skogo instituta perelivaniya krovi (dir. - dotsent A.D. Belyakov, nauchnyy rukovoditel' - prof. A.N. Filatov) i Nauchno-issledovatel'skogo instituta tokov wysokoy chastoty im. prof. V.P. Vologdina (dir. - kand.tekh.nauk M.A. Spitsyn, zam. dir. po nauchnoy chasti - kand.tekh.nauk N.P. Glukhanov).
(TRANSPLANTATION OF ORGANS, TISSUES, ETC.—EQUIPMENT AND SUPPLIES)

YAKUBOVSKIY, A.M., mashinist-instruktor; PROLENKO, M.P., mashinist-instruktor;
YAROSHEVICH, V.S., mashinist; YERKIMHAYEV, Ye., mashinist;
BABANAZAROV, A.M., mashinist; PEDOSOV, D. Ye.; SKORKIN, I.S.

Useful book "Reference book for a diesel locomotive engineering by
V.M.Terekhov, I.I.Murzin. Reviewed by A.M.Yakubovskii and others.
Elek. i tepl. tsiaga 4 no.2:47-48 F '60. (MIRA 13:6)

1. Master zagotovitel'nogo tsekha, depo Chu, Kazakhskaya doroga
(for Pedosov). 2. Master tsekha bol'skogo periodicheskogo remonta,
depo Chu, Kazakhskaya doroga (for Skorkin).

(Diesel locomotives)
(Terekhov, V.M.)
(Murzin, I.I.)

FROLENKO, Ya. I.

Centrifugal Pumps

Improving the thrust bearing assembly of the AS-100 centrifugal pump. Sakh. prom.
27, No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

STEPANOV, P.N., professor, zaveduyushchiy; FROLENKO, Ye.V.

New facts in the treatment of rheumatism. Terap.arkh. 25 no.3:17-23 My-Je
'53. (MLRA 6:9)

1. Gospital'naya klinika vnutrennikh bolezney Minskogo meditsinskogo instituta.
(Rheumatism)

FROLINKO, Ye. V.

FROLINKO, Ye. V.: "The treatment of rheumatism by enemas on the interorectors of the vesicles." Mir Higher Education "S.R. Vil'nyus State U imeni Kapsukas, Vil'nyus, 1956
(Dissertation for the Degree of Candidate in Medical Sciences)

Sov: Antizhurn. letonist, No 18, 1956

FROLENKO, Ye.V.

Liver function in rheumatic fever. Zdrav. Belor. 4 no.2:22-24 P
'58. (MIRA 13:8)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy - professor G.Kh.
Dovgallyo) Minskogo meditsinskogo instituta.
(RHEUMATIC FEVER) (LIVER)

FROLENKO, Ye.V., dotsent; LISUN, V.P.

Change in the prothrombin, fibrinogen, and viscosity of the
blood following the use of leeches. Zdrav. Belor. 6
no. 7:22-23 Je '60. (MIRA 13:8)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy - prof.
G.Kh. Davgyallo) Minskogo meditsinskogo instituta i
terapevticheskogo otdeleniya 1-y klinicheskoy bol'nitsy
glavnyy vrach A.I. Shuba).
(PROTHROMBIN) (FIBRINOGEN) (LEECHES)

DOVGYALLO, G.Kh., prof.; FROLENKO, Ye.V., dotsent

Change in the activity of hyaluronidase in the blood serum in
rheumatic fever. Zdrav. Bel. 7 no.3:14-17 Mr '61. (MIRA 14:3)

1. Iz kafedry gospital'noy terapii (zaveduyushchiy kafedroy - prof.
G.Kh. Dovgyallo) Minskogo meditsinskogo instituta.
(HYALURONIDASE) (RHEUMATIC FEVER)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLENKO, Yu.G.; KONOVALOV, V.A.; KOPTYAKOV, A.M.

Automatic control of the speed of feeding band saw units. Der.
From. 12 no.3:13-14 Mr '63. (MIRA 16:5)
(Band saws) (Automatic control)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

MOLOTKOV, R.V.; LYKOVA, T.A.; Prinimali uchastiye: KALININA, M.I.; SHERINA,
O.G.; FROLENKOVA, A.A.; BAKHMENDO, D.E.

Compounding of unsaturated polyesters and epoxy resins. Plast.
massy no.12:16-19 '60. (MIRA 13:12)
(Epoxy resins) (Esters)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLETSKIY, Yu.

*Broaching pivot bushings. Avt. transv. 38 no. 9:49-50 S '60.
(MIRA 13:9)*
(*Broaching machines*)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

FROLICH, I.

The phenomenon of drying in textile finishing. p. 31.

INDUSTRIA TEXTILA . (Asociatia Stiintifica a Inginerilor si Technicienilor din Romania si Ministerului Industriei Usoare) Bucuresti, Rumania. Vol. 10, No. 1, Jan. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 6, June 1959.
UNCL

FROLICH, J., ing.sef.

Dyeing installation built in Rumania. Ind text Rum 12 no.7:
291-292 Jl'61.

1. Intreprinderea "Vasile Roaita", Oradea.

HUNGARY

BALAZS, Viktor, Dr, FROLICH, Margit, Dr, SZEPESSY, Gabor, Dr, CSATI, Miksa, Dr; Medical University of Szeged, I. Medical Clinic and Central Research Laboratory (Szegedi Orvostudomanyi Egyetem, I. Belklinika es Kozponti Kutato Laboratorium).

"Properties of Isolated Kryoglobulins, Similar to Those of the 'Rheumatoid Factor'."

Budapest, Orvosi Hetilap, Vol 104, No 33, 18 Aug 1963, pages 1552-1554.

Abstract: [Authors' Hungarian summary] Kryoglobulin was isolated from 10 patients with different diseases. Their agglutination with latex particles and with gamma globulin which was bound to tanninized erythrocytes, and their Waaler-Rose reaction were investigated. Kryoglobulins, with one exception, which contained 7 S and 17-21 S components caused latex-agglutination, and agglutination of erythrocytes with gamma globulin tracer. The one exception exhibited a difference in other physical-chemical properties as well. Kryoglobulins which contained 7 S gamma globulin or B₂ M-globulin alone, gave negative reactions. Heparin had no effect on the reactions investigated, or on the cold precipitation of kryoglobulins. 1 Hungarian, 17 Western references.

1/1

HUNGARY

FROM ICH, G.

Productivity of the stone industry in Istria. Gradevinar 16
no. 7;250-251 Je '64

GARGULAK, Z.; FROLIK, J.

Simulated operation of casting cranes for determining the
most economical organization of a foundry. Hluti listy 17
no.5:338-343 My '62.

1. Vyzkumny ustav hutnictvi zeleza, Praha.

L 59611-65 T/EWP(t)/EWP(b) JD/JW
ACCESSION NR: AP5020422

CZ/0034/64/000/008/0551/0556

AUTHOR: Kremer, R. (Doctor, Engineer, Candidate of sciences); Lonsky, H. (Metallurgical engineer); Frolík, J. (Graduate mathematician)

TITLE: Variations of the soaking heat pit flow and thermal efficiency during the reheating of the ingots

SOURCE: Hutnické listy, no. 8, 1964, 551-556

TOPIC TAGS: computer calculation, analog digital computer, metal heat treatment, heat equation, heat treating furnace

Abstract [Authors' English summary modified]: A specific useful heat calculation was carried out on an analogue and a digital computer. The original equation had to be adapted for use in the digital computer. Partial calculation required for the computer program establishing are described. The program allows easy evaluation of reheating of any pit furnace, and of heat recuperation. It is also possible to determine by the program variations in specific useful heat, furnace efficiency, changes of ingot enthalpy

Card 1/2

L 59611-65

ACCESSION NR: AP5020422

during preheating, consumption of fuel, and specific heat output during the heating cycle. Curves of specific useful heat variations in 17 ingot reheatings are shown; average curves are suggested.

Orig. art. has: 2 tables, 5 formulas, 2 figures, 5 graphs.

ASSOCIATION: Kremer - VSB, Ostrava; Lonsky, Frolik - VUHZ, Prague

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, TD

NR REF Sov: 001

OTHER: 013

JPRS

Card 2/2

L 62728-65 EWP(b)/EWP(t) JW/JD
ACCESSION NR: AP5021456

CZ/0034/64/000/011/0781/0789

AUTHOR: Redr, M.⁵⁷ (Docent, Engineer, Candidate of sciences); Frolík, J.⁵⁵ (Graduate mathematician)

30
56
B

TITLE: Experimental and theoretical determination of the enthalpy of ingots during cooling

SOURCE: Hutnické listy, no. 11, 1964, 781-789

TOPIC TAGS: thermodynamics, enthalpy, steel, cooling, metal heat treatment

Abstract Author's English Summary: Results of measuring internal and surface temperatures of 10 ton-rimming steel ingots are described. Internal temperatures were measured by an immersion thermocouple designed by the authors. The duration of the temperature recordings was 13 hours; later changes were insignificant. Changes of the enthalpy of ingots are shown as a function of time and of the conditions of cooling. Authors' theoretical method of calculating enthalpy during cooling is discussed. The differences between the calculated and experimental values were small. The results of the study form a

Card 1/2

L 62728-65

ACCESSION NR: AP5021456

4

suitable basis for the control of soaking pit operation by
means of a computer. Orig. art. has 9 figures, 8 formulas, and 3 tables.

ASSOCIATION: Redr--VSB, Ostrava; Frolik--VUHZ, Prague

SUBMITTED: 00

ENCL: 00

55

SUB CODE: MM, TD

NO REF SOV: 002

OTHER: 027

JPRS

steel making

55/8

Card 2/2 M

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

PROLIEK, Jan, inz.

Development of the plywood industry, Czechoslovakia, 1945-1960

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

FROLIK, Jan

Calculation of the heat loss in the pit furnace brickwork
by automatic computers. Hut listy 19 no. 2: 98-102
F '64.

1. Vyzkumny ustav hutnictvi zeleza, Praha.

FROLIK, Z.

Internal characteristics of spaces which are topologically complete
according to E.Cech. Dokl. AN SSSR 137 no.3:533-536 Mr '61.
(MIRA 14:2)

1. Karlov universitet, Praga, Chekhoslovatskaya Respublika. Pred-
stavleno akademikom P.S.Aleksandrovym.
(Spaces, Generalized)

FROLIK, Z.

Locally topologically complete spaces. Dokl. AN SSSR 137 no.4:790-
792 Ap '61.
(MIRA 14:3)

1. Karlov universitet, Praga, Chekhslovatskaya Sovetskaya Respubli-
ka.
(Spaces, Generalized)

FROLIK, Z.

On almost real compact spaces. Bul Ac Pol Mat 9 no.4:247-250 '61.

1. Charles University, Praha (CSSR) Presented by K. Kuratowski.

FROLIK, Z,

On analytic spaces. Bul Ac Pol Mat 9 no.10:721-726 '61.

1. Charles University, Prague-Czechoslovakia. Presented by K.
Kuratowski.

FROLIK, Zdenek

A generalization of realcompact spaces. Chekhosl mat zhurnal 13
no.1:127-138 Mr '63.

1. Matematicky ustav, Karlova universita, Praha 8 - Kralin,
Sokolovska 83.

FROLIK, Zdenek

On the descriptive theory of sets. Chekhosl mat zhurnal 13 no.3:
335-359 S '63.

1. Matematicky ustav Karlovy university, Praha 8, Sokolovska 83.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIK, Z.

On coanalytic and bianalytic spaces. Bul Ac Pol math 12
no.9:527-530 '64.

1. Charles University, Prague.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

DOROSHKEVICH, A.M., kand. tekhn. nauk, dots.; FROLIKOV, A.I., red.

[Introduction to theoretical mechanics; statics] Vvedenie v teoreticheskuiu mekhaniku; statika. Uchebnoe posobie. Moskva, Mosk. poligr. in-t, 1962. 141 p. (MIRA 16:4)
(Statics)

DOROSHKEVICH, A.M., dots., kand. tekhn. nauk; FROLIKOV, A.I., red.;
BERNSHTEYN, T.I., tekhn. red.

[Lectures on kinematics] Lektsii po kinematike. Moskva,
Mosk. poligraficheskii in-t, 1961. 89 p. (MIRA 16:9)
(Kinematics)

DOROSHKEVICH, A.M., dots., kand. tekhn. nauk; FROLIKOV, A.I., red.;
BERNSHTEYN, T.I., tekhn. red.

[Textbook on dynamics] Uchebnoe posobie po dinamike. Mo-
skva, Mosk. poligr. in-t, 1962. 159 p. (MIRA 16:10)
(Dynamics)

L 7995-66

ACC NR: AP5026568

SOURCE CODE: UR/0286/65/000/019/0145/0145

AUTHOR: Frolikov, I. I.

ORG: none

TITLE: Gas atomizer. Class 85, No. 175445

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 19, 1965, 145

TOPIC TAGS: atomizer, solution atomizer, gas atomizer, gas ejector, gas engineering

ABSTRACT: This Author Certificate presents a gas atomizer for finely dispersed solutions. The atomizer consists of a cylindrical frame with a coaxial feeding pipe (see Fig. 1). The latter is equipped with vortex producing vanes and a conical dissector. To improve the performance and to insure uniform atomization of solutions, the atomizer contains a number of concentric cylinders. The length of the cylinders decreases with decreasing radius of the cylinders. On the outside, the atomizer is provided with a ring which forms an annular opening with the latter. The vortex former has the shape of a fan.

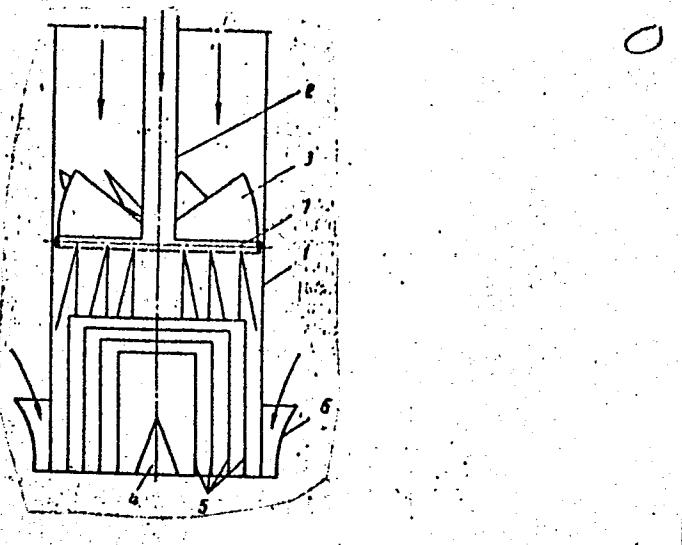
Card 1/2

UDC: 66.069.83:66.047.791.1.05

L 7995-66

ACC NR: AP5026568

Fig. 1. 1- cylindrical frame;
2- feeder pipe; 3- vortex former;
4- conical dissector; 5- con-
centric cylinders; 6- ring; 7-
fan-like distributed pipes



Orig. art. has: 1 figure.

SUB CODE: IE/ SUBM DATE: 13Mar64

^{nw}
Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIKOVA, I.N.; LINNIKOV, I.K.

Semiautomatic dividing attachment. Stan. i instr. 34 no.11:37
N '63.
(MIRA 16:12)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIKOVA, I.N.; LINNIKOV, I.K.

Pneumatic device for turning fittings during machining.
Mashinostroenie no.6:12-13 N-D '63. (MIRA 16:12)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIKOVA, I.N., inzh.; LINNIKOV, I.K., inzh.

Mechanical marking of cutting tools. Mashinostroenie no. 2:
19 Mr-Ap '64. (MIRA 17:5)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIKOVA, I.N., inzh.; LINNIKOV, I.K., inzh.

Multiple-purpose pneumatic device for cold bending of pipes.
Mashinostroenie no.4:56-57 Jl-Ag '65.

(MIRA 18:8)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

FROLIKOV A, K. A.

- 24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215
- Vsesoruyyy nauchno-issledovatel'skiy institut metrologii Izmeritely D.I. Mendeleyeva
- Referaty nauchno-issledovatel'skiy rebot: sbornik No. 2 (Scientific Research Abstracts: Collection of Articles No. 2). Moscow, Standardizatsiya, 1958. 139 p. 1,000 copies printed.
- Additional Sponsoring Agency: USSR. Komitet standartov, mer 1 Izmeritel'nykh priborov.
- Ed.: S. V. Rezhetsina; Tech. Ed.: N. A. Kondrat'yeva.
- PURPOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gases for the various industries.
- COVERAGE: The volume contains 128 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Komitet standartov, mer 1 Izmeritel'nykh priborov pri Sovete Ministrów SSSR (Commission on Standards, Measures, and Measuring Instruments under the USSR Council of Ministers). The participating institutes are: VNIM - Vsesoruyyy nauchno-issledovatel'skiy metrologicheskiy institut D.I. Mendeleyeva (All-Union Scientific Research Institute of Metrology D.I. Mendeleyev) in Leningrad; Sverdlovsk branch of this institute; VNIM - Vsesoruyyy nauchno-issledovatel'skiy Institut Komiteata standartov, mer 1 Izmeritel'nykh priborov (All-Union Scientific Research Institute of the Commission on Standards, Measures, and Measuring Instruments), created from RUDNIP (Novosibirsk); Gosudarstvennyy institut mer 1 Izmeritel'nykh priborov (Novosibirsk State Institute of Measures and Measuring Instruments) October 1, 1955; VNIFTRI - Vsesoruyyy nauchno-issledovatel'skiy institut fiziko-tehnicheskikh i radioelektronicheskikh izmerenii (All-Union Scientific Research Institute of Physico-technical and Radio-engineering Measurements) in Moscow; KHODNIP - Khar'kovskiy Gosudarstvennyy institut mer 1 Izmeritel'nykh priborov (Kharkov State Institute of Measures and Measuring Instruments); and NOVIP - Novosibirskiy Gosudarstvennyy institut mer 1 Izmeritel'nykh priborov (Novosibirsk State Institute of Measures and Measuring Instruments). No personalities are mentioned. There are no references.
- Polkova, A.Z., and I.P. Vazanova (Sverdlovsk Branch of VNIM) Studying Line Comparitors 10
- Polkova, A.Z. (Sverdlovsk Branch of VNIM). Completion of Research on Wear Resistance of Plane-Parallel End Standards (of Soviet Plants) of All Classes 11
- Kavrik, I.K., A.N. Koroleva, and A.D. Zegetina (VNIM). Improving Accuracy in Testing Small-Dimension Standards 11
- Dobrolyubova, Yu.P., and I.A. Prokof'yeva (MILIP). Studying the Circular Measuring Machine and Development of a Means of Inspecting Graduations of Precision Lenses 12
- Polkova, A.Z., and I.L. Mardantseva (Sverdlovsk Branch of VNIM). Studying an Instrument for Checking Angle-measuring Devices 13

Cards 4/27

SHVARTZ, A.O., FROLIKOVA, V.G., TYURINA, V.S., ALEKSANDROV, V.V.,
BOGUSLAVSKIY, D.B.

Perfecting the rubber mixture composition, based on butyl rubber,
for diaphragms in the formator-vulcanizers.

Report submitted for the 4th Scientific Research conference on the Chemistry
and technology of synthetic and natural rubber. Yaroslavl, 1962

SHVARTS, A.G.; FROLIKOVA, V.G.; ARENZON, N.M.; TYURINA, V.S.

Basic requirements for rubber for the membranes of forming
and vulcanizing units. Kauch. i rez. 23 no.1:24-27 Ja '64.
(MIRA 17:2)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlen-
nosti.

L 42987-66 EWT(m)/EWP(j) IJP(c) RM/JWD

ACC.NR: AP6013274 (A) SOURCE CODE: UR/0413/66/000/008/0078/0078

INVENTOR: Dogadkin, B. A.; Tutorskiy, I. A.; Shvarts, A. G.; Potapov, Ye. E.; Frolikova, V. G.

ORG: none

3⁰ B

TITLE: Method of modifying rubber. Class 39, No. 180790

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 78

TOPIC TAGS: natural rubber, synthetic rubber, aminophenol, hydroxy compound, aromatic hydroxy compound, rubber modification

ABSTRACT: An Author Certificate has been issued for a method of modifying natural and synthetic rubbers by introducing hexamethylenetetramine and aromatic hydroxy compounds into the mixture. To improve the physical and mechanical properties of the rubber, aminophenols are used as an aromatic hydroxy compound.
[Translation]

[NT]

SUB CODE: 11,07/ SUBM DATE: 09Jan65/

Card 1/1 hsc

UDC: 678. 4. 7. 046-9:547. 564. 4

SHVARTS, A.G.; EYTINGON, I.I.; FROLIKOVA, V.T.; STREL'NIKOVA, N.P.

Some requirements for alkylphenol-formaldehyde resins used for
the vulcanization of butyl rubber. Kauch. i rez. 22 no.10;
17-18 O '63. (MIRA 16:11)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

L 16330-65 EWT(m)/EWA(d)/EWP(j)/T/EWP(t)/EWP(b) PC-4 ASD(m)-3 RM/MJW/D/WB

ACCESSION NR: AP4049181

S/0314/64/000/005/0029/0031

AUTHOR: Liferenko, I.G. (Candidate of technical sciences), Istrian, A.F., Frolikova, Ye.

TITLE: Corrosion resistance of cast OKh21N6M2T steel during production of dimethylterephthalate

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 5, 1964, 29-31

TOPIC TAGS: chromium steel, steel corrosion, cast steel, pump manufacture, steel mechanical property, steel corrosion resistance, dimethylterephthalate production/ steel OKh21N6M2T

ABSTRACT: The production of dimethylterephthalate, used for obtaining synthetic fibers and films, requires pumps made of Kh18N12M2T steel, which is quite expensive. A cheaper OKh21N6M2T steel has therefore been tested for corrosion resistance. The foundry laboratory of VIGM tested the castability, shrinkage, macrostructure and microstructure of the cheaper steel. The tests showed good casting and mechanical properties of the steel (ultimate strength 69.5-76.1 kg/mm², relative elongation 25.6-34.8%, impact toughness 6.6-11.9 kg-m/cm² and Brinell hardness 187). The chemical composition of the tested steel was 0.01-0.10% C, 0.38-0.80% Si, 0.53-1.38% Mn,

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L 16330-65
ACCESSION NR: AP4049181

17.8-20.97 Cr, 5.75-12.10% Ni, 0.15-0.57% Ti, 2.08-2.91% Mo, 0-0.027% P, and 0.0275% S). Intercrystalline corrosion was first tested according to GOST 6032-58. The performed tests, both in the laboratory and at the plants, showed that cast and welded samples of OKh21N6M2T steel had high corrosion resistance. Metallographic analysis showed an absence of intercrystalline and selective corrosion on the samples. No traces of corrosion were found on a pump impeller made of this steel. "Engineers O. F. Aksenov and A. I. Porshneva took part in studying the casting properties of the steels." Orig. art. has: 3 figures and 3 tables.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 000

OTHER: 000

Card 2/2

<p>94) <i>Pravil'noe upravlenie termostatori</i>; zhurnik stroy; Collection of articles. Moscow, Gosstroygizdat, 1959. 229 p. 13,000 copies printed.</p> <p>(title page): B. S. Sorabov, Doctor of Technical Sciences, Professor; Ed. G. A. Petrov, Tech. Ed.; O. I. Matveyev; Editorial Board; N. S. Borodov, Doctor of Technical Sciences, Professor (Chief Ed.), N. P. Shatalov, Candidate of Technical Sciences; N. G. Savchenko, Ye. N. Rognanov, Engineer; and V. I. Turikovets, Editor.</p> <p>Annotation: This collection of articles is intended for engineering and technical personnel of plants, GKO, KII and also instructors and students of universities and polytechnic institutes.</p> <p>Content: The book contains articles dealing with problems of manufacture of thermistors and determining theiristor parameters and characteristics. The author also discusses problems of industrial application of thermistors as electrical elements. The book is an effort of several organizations and enterprises of the Soviet Union, engineers of one of the plants (name is not given) and representatives of the Ministry of Machine-Building and the Ministry of Radioelectronics. No personalities are mentioned. References are given at the end of some articles.</p>	<p>62</p> <p>72</p>
<p>95) <i>Obzor i issledovaniye teristorov</i>; zhurnik stroy; Collection of articles. Moscow, GKO, 1958. 128 p. 10,000 copies printed.</p> <p>(title page): Ye. G. Dzhambek, Problem of Studying of Thermistors Based on Bailey's Method; V. V. Kostylev, Operating Conditions of Thermistors used in Automobiles; V. V. Kostylev, Determination of Current-Voltage Characteristics and Calculation of Thermistor Parameters; Ye. G. Dzhambek, Determining a Heating Characteristic as well as Methods of Calculating and Determining of Thermistor Parameters. There are 3 references, all Soviet.</p> <p>Annotation: The author discusses methods of calculating temperature and current characteristics, constant β and power dissipation coefficient. He also discusses characteristic voltage-current and calculates thermistor parameters based on Bailey's method. There are 3 references, all Soviet.</p>	<p>63</p>
<p>96) <i>Teristori v avtomobile</i>; zhurnik stroy; Collection of articles. Moscow, GKO, 1958. 128 p. 10,000 copies printed.</p> <p>(title page): Ye. G. Dzhambek, Temperature Characteristics of Thermistors Used in Automobiles; V. V. Kostylev, Characteristics of Thermistors Present Experimental Temperature Dependence; N. S. Borodov, Characteristics of Thermistors made from the following compounds: BaO-CuO; BaO-CuO-α-Al₂O₃; BaO-CuO-β-Al₂O₃; BaO-CuO-γ-Al₂O₃. They describe the importance of these materials in the design of new types of thermistors. There are 3 references, all Soviet (including 1 translation).</p>	<p>64</p>
<p>97) <i>Teristori. Ya. G. Teristori dlia kontrolirovaniya sverstki</i>; zhurnik stroy; Collection of articles. Fundamentals of manufacture of laboratory-type thermistors used as thermostatic elements in the automobile industry, operation and presents the thermistor characteristics. There are 2 references, all Soviet.</p>	<p>65</p>
<p>98) <i>Teristori v avtomobile</i>; zhurnik stroy; Collection of articles. Moscow, GKO, 1958. 128 p. 10,000 copies printed.</p> <p>(title page): Ye. G. Dzhambek, High-Temperature Thermistor. The author discusses the manufacture and operation of a laboratory-type thermistor used at temperatures 1,000 - 1,500°C and presents basic characteristics. There are 9 references, 6 Soviet, 2 English and 1 German.</p>	<p>66</p>
<p>99) <i>Analiticheskie metody opredeleniya operativnykh usloviy teristorov</i>; zhurnik stroy; Collection of articles. Moscow, GKO, 1958. 128 p. 10,000 copies printed.</p> <p>(title page): Ye. G. Dzhambek, Analytical Methods of Determining Operating Conditions for Thermistors Being Alternating Current. The author discusses operating conditions of a-c thermistors with the time constant much larger than the period of alternating current used. He also presents a method of calculating thermal conductive parameters such as current voltage, function $B(v)$ etc. There are no references.</p>	<p>100</p>
<p>100) <i>Voltage stabilizator</i>; zhurnik stroy; Collection of articles. Moscow, GKO, 1958. 128 p. 10,000 copies printed.</p> <p>(title page): Ye. G. Dzhambek, Voltage Stabilizer Circuits With Thermistors. The author presents a method of calculating dynamic characteristics of thermistors. The method can be used in the design of time regulation utilizing the thermistor circuit. He also discusses the use of thermistors in simple circuits with thermistors. There are 2 references, both Soviet.</p>	<p>101</p>
<p>101) <i>Teristori v elektronike</i>; zhurnik stroy; Collection of articles. Moscow, GKO, 1958. 128 p. 10,000 copies printed.</p> <p>(title page): Ye. G. Dzhambek, Teristori v elektronike. The author discusses various applications of thermistors in electronic devices. The author discusses the use of thermistors in the control of transmission level in a radio receiver, in a radio transmitter, in a television receiver, in a television transmitter, and so on. There are 3 references, 1 Soviet, 1 English.</p>	<p>102</p>

PHASE I BOOK EXPLOITATION SOV/5488

Moscow. Vsesoruyuy nauchno-issledovatel'skiy i konstruktorskii Institut khimicheskogo nauchno-stroyenya.

MATERIALY v khimicheskom mashinostroyenii (Materials in Chemical Machine Building) Moscow, Informatsionno-izdatel'skiy otdel. 1960. 113 p. [Series: Iss: Trudy, vyp. 34] 3,000 copies printed.

Sponsoring Agency: Gosudarstvennyy komitet Soveta Minister SSSR po Avtomatike i mashinostroyeniyu i Vsesoruyuy nauchno-issledovatel'skiy i konstruktorskii Institut khimicheskogo nauchno-stroyenya. KIIMNRAKASH.

Ed. (Title page): V. K. Fedorov, Candidate of Technical Sciences; Editorial Council: Chairman: V. B. Nikolayev; Deputy Chairman: Yu. N. Yanovskiy; Candidate of Technical Sciences: B. N. Borisoglebskiy; A. M. Goncharov; Yu. G. Popandopulo; I. N. Yubakov; Candidate of Technical Sciences: and G. M. Yuova; Candidate of Technical Sciences; Ed.: V. I. Glukhov; Tech. Ed.: P. A. Vinogradov.

PURPOSE: This collection of articles is intended for technical personnel in chemical machine building and other branches of the machine and instrument industry.

CONTENTS: The collection deals with the results of investigations on the mechanical, corrosive, and engineering qualities of certain alloys. Also discussed are heat-treatment results, the phase composition of stainless steels, methods of checking products, and new designs of apparatus used in checking. References accompany each article.

TABLE OF CONTENTS:

Gavrilov, V. M. [Engineer], and V. F. Fedorov [Candidate of Technical Sciences]. Crystallization of Alloys in the Elastic-Vibration Field	3
Kozulin, M. I. [Engineer]. Metal Which Will Resist Corrosion in Molten-type Metal Containing Zinc	12
Shapiro, M. B. [Engineer], and V. M. Makarov [Engineer]. Induction Hardening of Small-Module Pistons of [Speed] Reducers	26
Chernova, N. P. [Engineer]. Irreversibly Filled Nitinormash - Technical Branch of Nitinormash. Investigation of the Effect of Hydrogen on the Endurance of Certain Steels [Engineers V. D. Polonova and M. I. Mir took part in the investigation]	33
Akhiezava, A. P. [Candidate of Technical Sciences], and G. N. Shumareva [Engineer]. Effect of Heat Treatment on the Phase Composition of 1Kh18N9T Steel and Kh18N12M9T Steel [V. N. Davydova, P. T. Daitriev, A. M. Sheveldin, A. M. Shabanov, Z. K. Ogurcovska, and L. Ye. Lobanova took part in the investigation]	50
Dyatlov, I. N. [Engineer], and Yu. M. Prokof'eva [Engineer]. Dependence of the Corrosion Resistance of 1Kh18N9T and Kh18N12M9T Steels on the α -Phase Content	69
Sheveldin, B. M. [Candidate of Technical Sciences]. Effect of Various α -Phase Contents in 1Kh18N9T Steel and α - and σ -Phase	
	Card 3/5

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

DYATLOVA, V.N., inzh.; FROLIKOVA, Ye.M., inzh.

Relation between the corrosion resistance of 1Kh18N9T and Kh18N12M3T
steels and the composition of the α -phase. Trudy NIIKHIMMASH
no.34:69-81 '60.

(MIRA 14:1)

(Steel—Corrosion)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

S/184/63/000/002/004/007
A059/A126

AUTHORS: Dyatlova, V.N., Frolikova, Ye.M., - Engineers

TITLE: Resistance to corrosion of metals and alloys in solutions of sulfuric acid with titanium impurity

PERIODICAL: Khimicheskoye mashinostroyeniye, no. 2, 1963, 32 - 33

TEXT: In the production of titanium pigments, solutions of sulfuric acid containing titanium, iron and other metal cations are used. The working solution is cooled in a vacuum crystallizer from 55 to 15°C, and supplied to the vacuum evaporator, where it is heated to 70°C. The rate of corrosion of different metals and their welded samples was determined in order to find materials appropriate to replace copper and lead in these setups. Titanium was welded in argon with infusible electrodes, while the electrode НЖ-13. св.Х 18 Н11 Е (NZh-13.sv.Kh18N11B) was used for the manual welding of the steels X 18 H12 M2T (Kh18N12M2T) and X18H 12 M3 T (Kh18N12M3T), and the steel X 23 H28 M3Д 3 T (Kh23N28M3D3T) was manually welded with the electrode М15 (M15) in the Laboratoriya svarki NIIKhIMMASHa (Welding Laboratory of the NIIKhIMMASH) under the

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S/184/63/000/002/004/007

Resistance to corrosion of metals and alloys in A059/A126

guidance of A.N. Krutikov and P.T. Dmitriyeva. Corrosion tests were performed both in laboratory and plant conditions in the solution contained in the vacuum crystallizer. Titanium BT-1 (VT-1) showed the highest resistance to corrosion both in the production of titanium dioxide pigments and in the vacuum crystallizer at 55°C. All stainless steels and also copper and its alloys were rather resistant to corrosion in the production of titanium dioxide pigments showing surface pitting. The corrosion of the steel Kh23N28M3D3T increased by a factor of more than 10 under working conditions as compared to the laboratory, and that of the steels Kh18N12M2T and Kh18N18M3T by a factor of more than 200, being uniform in each case. The rate of corrosion of copper increased only little with the degree of its purity. Deoxidized Chile copper dissolved completely; the bronzes behaved in almost the same way as copper. The steel Kh23N28M3D3T was highly resistant both on complete and partial submersion in the solution of the vacuum crystallizer, while Kh18N12M3T showed pitting, and Kh18N12M2T was very strongly corroded. Copper and bronzes were subject to strong local corrosion along the water lines on partial immersion, while corrosion was uniform and intense on complete submersion. The rate of corrosion of the steel Kh23N28M3D3T was 10fold under working conditions as compared to the laboratory, and corrosion

Card 2/3

S/184/63/000/002/004/007
A059/A126

Resistance to corrosion of metals and alloys in

spread in the form of stains. The steels Kh18N12M3T and Kh18N12M2T were very badly corroded. Copper was much more heavily attacked as compared to the laboratory tests, while the bronzes were corroded to the same extent, and a uniform oxide film formed on the Fe-Mn bronzes. The maximum impurity contents found in the solution contained in the vacuum crystallizer were: 0.01 g Cr³⁺/liter; 0.02 g Cu²⁺/liter; and traces of nickel. There are 3 tables.

Card 3/3

L 10813-63 EWP(q)/ENT(m)/BDS--AFFTC/ASD--JD
ACCESSION NR: AP3003442

57
13
S/0129/63/000/007/0005/0009

AUTHOR: Akshentseva, A. P.; Istrina, Z. F.; Khimushin, F. F.; Frolikova, Ye. M.

TITLE: Phase transformations and corrosion resistance of OKh21N6M2T steel

SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no. 7, 1963,
5-9

TOPIC TAGS: low-nickel stainless steels, ferritic-austenitic stainless steels, structural changes, corrosion resistance, intergranular corrosion, heat treatment, Sigma phase, corrosion rates, nitric acid, phosphoric acid

ABSTRACT: An investigation was made of the phase composition, weldability, and corrosion resistance of OKh21N6M2T steel (0.07% C; 21.0% Cr; 5.66% Ni; 2.3% Mo; 0.47% Ti). In as-delivered condition (15-min annealing at 1000C followed by water quenching), this steel has a ferritic-austenitic structure, containing up to 75% δ-ferrite. This structure, however, is not stable; at 500—1000C the steel undergoes complex phase transformations. Tempering at Card 1/3

L 10813-63

ACCESSION NR: AP3003442

0

500-550C for 2 hr causes dispersion hardening of the ferrite and precipitation of chromium carbides along the grain boundaries; 2-hr tempering at 700-950C brings about transformation of the ferrite into secondary austenite, with crystals of the latter forming inside the ferrite grains. Longer holding at 700-950C promotes intensive growth of the secondary austenite crystals, which finally penetrate all the ferrite grains. At the same time, diffusion growth of the primary austenite grains takes place; cooling to room temperature brings about partial martensitic transformation within these grains. With longer holding (50 and 100 hr) at 650-850C, the σ -phase precipitates within the ferrite grains, and the notch toughness of the steel drops from initial 6 to 0.5 kg-m/cm². Annealing at 750C reduces the content of δ -ferrite to 45-55%. The structure with a ratio of δ -ferrite to secondary austenite of approximately 1:1 appears to be the most stable. When this steel is welded, regardless of the type of welding or the kind of electrode used, recrystallization of the base metal occurs in the weld-adjacent zone, with formation of large grains of δ -ferrite, along whose boundaries small crystals of secondary austenite form with cooling. The steel with a Ti/C ratio equal to or exceeding 5, after annealing at 1000C, as well as after sensitizing annealing at 550-650C for 2 hr, is not susceptible to intergranular corrosion in boiling 50% Card 2/3

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ACCESSION NR: AP3003442

and 65% nitric acid or in boiling 50% phosphoric acid. The corrosion rate in phosphoric acid varied from 0.012 to 0.472 g/m²-hr (except for 2.11 g/m²-hr of specimens sensitized at 650C). Corrosion rates in 50% nitric acid after sensitizing at 500—700C were high (1.45—50.11 g/m²-hr). Stabilizing annealing at 700—1000C lowered corrosion rates to 0.192—0.583 g/m²-hr. Annealing the steel at temperatures above 1100C increases the ferrite content and lowers corrosion resistance, but tempering at 700C or above restores resistance to intergranular corrosion. In some media this steel has the same corrosion resistance as Kh18Ni12M2T Cr-Ni-Mo steel and is therefore recommended as a substitute for it. Orig. art. has: 7 figures and 1 table.

ASSOCIATION: NIIKhIMMASH

SUBMITTED: 00

DATE ACQ: 02Aug83

ENCL: 00

SUB CODE: 00

NO REF SOV: 002

OTHER: 001

lm/wk
Card 3/3

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

ISTRINA, Z.F., inzh.; VOLIKOVA, I.G., kand. tekhn. nauk; KRUTIKOV, A.N.,
kand. tekhn. nauk; FROLIKOVA, Ye.M., inzh.

Corrosion resistance of metals in the production of citric acid.
Khim. i neft. mashinostr. no.2:36-37 Ag '64 (MIRA 18:1).

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

— F. M. NOVAK, YK-1A
L 41332-63 EWT(m)/EPF(c)/EWA(d)/EMP(t)/EMP(z)/EMP(b) Pad LJP(c) MM/ 3
JD/RM/JG/BS

ACCESSION NR: AR5000732

S/0277/64/000/009/0007/0007 32

SOURCE: Ref. zh. Mashinostroitel'nye materialy, konstruktsii i raschet dotealy mashin. Gidroprivod. Otd. vyosp., Abs. 9.48.40

AUTHOR: Istrina, Z. F.; Krutnikov, A. N.; Shovelkin, B. N.; Shapiro, M. B.; Akhontseva, A. P.; Khimushin, F. F.; Frolikova, Yo. M.; Bolinkiy, A. L.

TITLE: Corrosion resistant properties of chromium nickel steels with lowered nickel content

CITED SOURCE: Tr. Vses. n.-i. i konstrukt. in-t khim. mashinostr., vyosp. 45, 1963, 76-93

TOPIC TAGS: corrosion resistance, chromium nickel steel, nickel containing alloy, metal corrosion/ steel OKh21N5T, steel OKh21N6M2T, steel OKh17N5G9AB, steel 1Kh18N9T, steel 1Kh18N12M2T

TRANSLATION: Results of an investigation of the structure, heat treatment, weldability, pressure working, and corrosion resistance of corrosion resistant steels with reduced nickel content and their

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ACCESSION NR: AR5000732

welded joints are presented, and the field of application of these steels in the construction of chemical equipment is determined. Because of their corrosion resistance, steels OKh21N5T, OKh21N6M2T, and OKh17N5G9AB can be used as substitutes for steels 1Kh18N9T and 1Kh18N12M2T in a variety of corrosive media, for example, in the production of caprolactam, adipic acid, dimethylterephthalate, citric acid, urea, nitric acid, and others.

SUB CODE: MM

ENCL: 00

Card 2/2 C

L. 57059-65 EPA(s)-2/FIT(m)/FPP(e)/EIA(d)/EMP(r)/T/EMP(t)/EMP(k)/EMP(s)/EMP(b)/
LIA(c) Pl-4/Pad IJP(c) IJH/JD/IM/WD/IH
ACCESSION NR: AR5000973 S/0197/65/000/001/1070/1070
669.15.018.85

SOURCE: Ref. zh. Metallurgiya, Abs. 11463

AUTHOR: Istrina, Z. F.; Krutikov, A. N.; Shevelkin, B. N.; Shapiro, M. B.; Akhnentsova, A. P.; Khimuchin, F. F.; Frolikova, Ye. M.; Belinkiy, A. L.

TITLE: Properties of corrosion-resistant nickel-chrome steel with reduced nickel content

CITED SOURCE: Tr. Vses. n.-i. i konstrukt. in-t khim. mashinostr., vyp. 45, 1963,
76-93

TOPIC TAGS: metallurgy, ferrous metals, corrosion resistance, heat treatment, welding

TRANSLATION: Austenite-ferrite OKh21N5T, PKh21N5T and OKh21N6M2T steels and
OKh17N5G9AB of the austenite class were studied. The OKh21N5T and OKh21N6M2T
steels were quenched from 1000°, OKh17N5G9AB from 1150°. Additional toughening of
steels of the austenite-ferrite class can be achieved by age-hardening at 475° for

Card 1/2 [PKh21N5T Should be 1 Kh21N5T]

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ACCESSION NR: AR50008973

2 hours. The σ_y of OKh21N6H2T steel is increased from 45 to 51 kg/mm² and that of OKh21N5T steel to 50 kg/mm² by heat treatment, which produces martensite conversion. Conditions of heat treatment in this case are: heating to 750°; cold working at -70° for two hours and age-hardening at 350° for two hours. The welding conditions for the steels studied correspond to the parameters for steels of type 18-8 and 18-12. Heat treatment of OKh21N5T and OKh21N6H2T steels should be done at 1080-1100°; for OKh17N5G9AB steel at 1080-900°. OKh21N5T and OKh21N6H2T steels have high corrosion resistance and do not have a tendency toward intercrystalline corrosion after quenching from 1000°, and the same is true of OKh17N5G9AB steel for quenching from 1150°. Seams welded with an austenite electrode are resistant to intercrystalline corrosion.

SUB CODE: MM, IE

ENCL: 00

dm
Card 2/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

LIFERENKO, I.G., kand. tekhn. nauk; ISTRINA, Z.F., inzh.; FROLIKOVA,
Ye.M., inzh.

Corrosion resistance of OKh21N6M2T cast steel in the production
of dimethyl terephthalate. Khim. i neft. mashinostr. no. 5229-31
(MIRA 18:2)
N '64

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

L 25692-65 EWT(m)/EWA(d)/EWP(v)/T/EWP(t)/EWP(k)/EWP(b) Pf-L/Pad IJP(c)

MJW/JD/HM/HW/WB

ACCESSION NR: AP5003578

S/0314/65/000/001/0030/0034

40

AUTHOR: Krutikov, A. N. (Candidate of technical sciences); Istrina, Z. F.
(Engineer); Arest, T. V. (Engineer); Frolikova, Ye. M. (Engineer)

30

B

TITLE: Welding and applications of steels with a relatively low nickel content

SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 1, 1965, 30-34

TOPIC TAGS: low nickel steel, steel welding, stainless steel, steel corrosion, steel heat treatment, electric arc welding, argon arc welding, intercrystalline corrosion, weld seam stability/steel 0Kh21N5T, steel 1Kh21N5T, steel 0Kh21N6M2T

ABSTRACT: Three stainless steels with a relatively low nickel content (0Kh21N5T, 1Kh21N5T and 0Kh21N6M2T) were tested for weldability and for the corrosion stability of welded or thermally treated segments to define the applicability of such steels under commercial conditions. The samples were manually welded by electroarc using various electrodes, and also with a number of welding rods used in argon arc welding. Welded joints and specimens which had been heated 15 min. at 1100°C or 3 min. in a salt bath at 1100 or 1250°C were tested for intercrystalline corrosion. Both welding methods were shown to be usable, and the electrode TSL-11 with welding rod Sv-08Kh19Ni10B was selected for steel 0Kh21N5T, whereas the electrode EA-400/10 was recommended for 0Kh21N6M2T.

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L 25692-65

ACCESSION NR: AP5003578

Welded joints produced under similar conditions as used for welding type 18-8 steels did not require thermal aftertreatment and had good mechanical properties and resistance to intercristalline corrosion. The corrosion stability of thermally treated specimens depended on temperature and steel type, as shown in Fig. 1 of the Enclosure. Orig. art. has: 1 figure and 6 tables.

ASSOCIATION: NIKhimmash

SUBMITTED: 00

ENCL: 02

SUB CODE: MM

NO REF SOV: 004

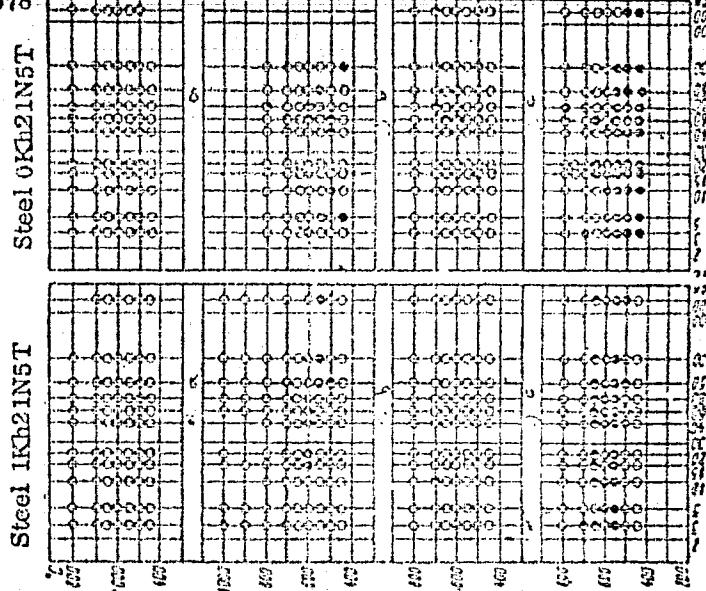
OTHER: 001

Card 2/4

L 25692-65

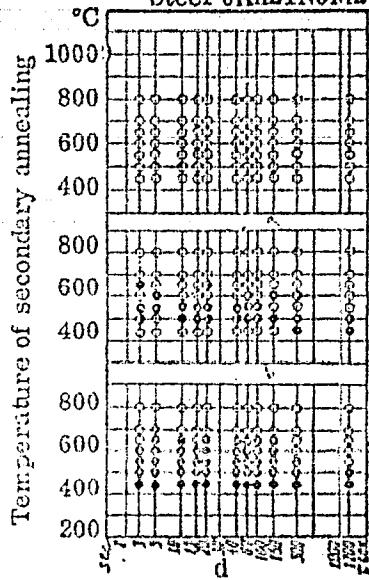
ACCESSION NR: AP5003578

Enclosure: 01



Card 3/4

L 25692-65

ACCESSION NR: AP5003578
Steel 0Kh21N6M2T

Enclosure: 02

Figure 1. The effect of thermal treatment and repeated heating on the resistance of steel to intercrystalline corrosion:

- a. without thermal treatment (in the initial state);
- b. after 15 min. tempering at 1100°C;
- c. after 3 min. tempering at 1100°C;
- d. after 3 min. tempering at 1250°C;
- .. no intercrystalline corrosion;
- .. intercrystalline corrosion

Card 4/4

Heating time

FROLIKOVA, E. YA.

AID P - 2592

Subject : USSR/Hydraulic Engineering

Card 1/1 Pub. 35 - 15/20

Author : Frolikova, E. Ya., Eng.

Title : On the irregularity of distribution and pulsation of
the flow beyond the hydraulic jump

Periodical : Gidr stroi, 4, 40-42, Ap 1955

Abstract : The author criticizes N. N. Belishevskiy's article
(No. 3, 1955, this journal) and presents a mathematical
analysis using the pressure equation and the Bernouilli
theorem with curves. A further study of the problem,
especially for river beds subject to erosion, is
recommended. Eight Russian references, 1935-1954, and
1 German, 1936.

Institution : None

Submitted : No date

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIKOVA, Ya. Ya. Anshener.

Surface and bottom systems of juncture and soil scour created by
an inclined stream. Gidr. stroi. 26 no.2:36-39 F '57. (MLRA 10:4)
(Dams) (Hydraulic engineering)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

NIKITIN, I.K., kand.tekhn.nauk; FROLIKOVA, Ye. Ya., mladshiy nauchnyy
sotrudnik

Relation between the height of wind waves and the velocity of wind
according to observations in situ in reservoirs of Central Asia.
Trudy SANIIRI no.99:3-13 '59. (MIRA 14:5)

(Waves)
(Winds)
(Soviet Central Asia—Reservoirs)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4

FROLIKOVA, Ye.Ya., mladshiy nauchnyy sotrudnik

Transformation of wind waves in shallow water. Trudy SANIIRI
no.99:15-19 '59. (MIRA 14:5)
(Waves)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513730008-4"

FROLIKOVA, Ye. Ya., mladshiy nauchnyy sotrudnik

Problems in the technical operation of irrigation reservoirs in
Central Asia. Trudy SANIIRIm.101:3-45 '59. (MIRA 14:5)
(Soviet Central Asia—Reservoirs)
(Irrigation)

FROLIKOVA, Ye. Ya., maldshiy nauchnyy sotrudnik

Specific features of the operation of Tedzhen Reservoir.
Trudy SANIIRI no.101:46-56 '59. (MIRA 14:5)
(Tedzhen Reservoir)

FROLIKOVA, Ye.Ye.

Study and calculation of wind waves in the shallow waters of a
coastal area. Vop. gidr. no. 12:61-67 '63. (MIRA 17:5)